Reclaimers

Designed to transfer the coal stock pile to the Coal Handling Pre-Plant (CHPP) or to the Coal Loading Facility these machines are operational critical to any CHPP. Demands for product availability and higher feed rates require the power transmission components to exceed the industry standards now and into the future.

Operating conditions like this require the best in design and innovation and TSUBAKI is the proven name in the field for delivery on performance and increased profitability to the bottom line.

For these machines TSUBAKI has designed their made-to-order Stack Reclaimer Chain. With a wide variety of options, these chains are specifically designed and manufactured to meet the unique challenges of your operation. To help battle against potential dust build up between bushes and rollers, TSUBAKI is proud to introduce the improved anti-dust capabilities for the Bearing Roller Conveyor Chain. Also widely utilized are TSUBAKI’s highly customizable Large Scale Conveyor Chains. With a wide variety of base materials, corrosive resistant coatings, attachments and rollers, TSUBAKI is confident we have a Large Size Conveyor Chain that can meet the unique challenges of your mining site.

Note that due to their complex requirements, reclaimer chains are normally manufactured on a made-to-order basis, designed and manufactured to meet the specific unique requirements of each site. Please contact your local TSUBAKI representative to obtain certified prints for design and construction.

TSUBAKI’s Bearing Roller Conveyor Chain Anti-Dust Specification solves the problem of dust causing early wear between bushes and rollers that afflicts standard conveyor chains.
- Exhibits the same performance and efficiency of the Bearing Roller Conveyor Chain, even in dusty environments.
- Same dimensions as standard R or F rollers and RF Conveyor Chains

Please contact your local TSUBAKI representative for further details.

Along with the above mentioned Stack Reclaimer Chain, TSUBAKI is proud to offer its large line up of highly customizable Large Size Conveyor Chains. As these conveyor chains are highly customizable, with a variety of materials and corrosion resistant coatings, attachments, and roller types available to match the unique conditions of your mining site, we here at TSUBAKI are confident that our Large Size Conveyor Chains can meet any challenges your site has to offer. Furthermore, because many of our innovative products are a direct result of answering specific challenges presented by our customers, please do not hesitate to contact your local Tsubakimoto representative if your mining site has unique challenges other chains just can’t stand up to.

Please refer to the following pages for information regarding chain base material, corrosion resistant coatings, as well as types of attachments and rollers available.

Features and Benefits
- Made to order custom chains to suit individual applications, and customized upgrades for problem applications.
- Specialized materials and heat treatment applications for every pitch size.
- Matched chain and sprocket assemblies for smooth chain operation.
- Specialized coatings for corrosion resistance, enhancing chain life and reducing maintenance costs.
- Special lube ports and greasing ports for easy maintenance and longer wear life.
- Outboard bearing rollers to reduce wear to the base chain roller.
- Special sealing arrangements for harsh environments to improve wear life.
Stack Reclaimer Chains

Stack Reclaimers are popular when heavy industrial processes require that large storage piles of raw material are necessary. Reclaimer chain and flight assemblies function like scraper conveyors, less the trough, with flight blades that push material toward a belt feeding conveyor. The reclaimer conveyor’s chain with digging flights are supported by rails and structure which span over or across the pile being reclaimed for transfer to plant processes. Chain for this demanding application should provide the longest service life to achieve the best overall value. Chain must have large bearing areas, high hardnesses and deep case depths to provide the best performance. TSUBAKI engineers have used these principles while retrofitting many reclaiming conveyors with chain and sprockets, achieving service life which is longer than O.E.M. chains. For the superior value and performance, TSUBAKI Chain is your best choice.

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Improved Anti-Dust Capabilities
3x the wear life of Bearing Roller Conveyor Chain Standard Specs

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Large Size Conveyor Chains

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- Outboard bearing rollers to reduce wear to the base chain roller.
- Special sealing arrangements for harsh environments to improve wear life.
Tsubaki Conveyor Chain is made from carbon steel, high tensile structural steel, or stainless steel (300 / 400 Series) parts to satisfy any application.

Attachments can be placed at any link spacing. Standard Attachments (A1, A2, K1, K2, GA2, GA4)

- **A Attachments**: Have a bent link plate on one side. They are referred to as A1, A2, or A3 attachments, depending on the number of bolt holes.
- **K Attachments**: Have a bent link plate on both ends. They are referred to as K1 or K2 attachments, depending on the number of bolt holes.
- **GA Attachments**: Have holes in the link plate itself. They are referred to as GA2 or GA4 attachments, depending on the number of bolt holes.

Please note that other non-standard attachments and special “Out Board Roller” (OBR) bearings are available. Furthermore, special sealed roller (OBR) long life rollers to suit highly contaminated areas are also available upon request. Please contact your local Tsubakimoto representative for more details.

**TSUBAKI Conveyor Chains** use three basic roller types.

- **R Rollers**: The outside diameter of the roller is larger than the height of the link plate. Tsubaki’s most basic, versatile roller type. It has a large allowable load and low frictional resistance.
- **F Rollers**: There is a flange on the roller, attached on the T-pin side, that acts as a guide. Flange rollers are a simple way to prevent side oscillation. They are perfect for rough usage conditions and regular slat conveyance. Be careful when using K attachments, as the attachment area may contact the roller flange.
- **S, M, and N Rollers**: These rollers are effective in alleviating the shock and wear the chain would normally suffer during sprocket engagement.
  - **S Rollers**: The outside diameter of the roller is smaller than the height of the link plate.
  - **M Rollers**: The outer diameter of the M Roller is slightly larger than that of the S Roller.
  - **N Rollers**: The roller diameter of the M and N rollers are the same, but the pin diameter is larger, increasing its strength. (RF26200N and above)

**Reclaimers – Large Size Conveyor Chains**

Tsubaki’s Wide Selection of Large Size Conveyor Chains

**General Use Conveyor Chains**

- **DT Series**: Our most versatile chain.
- **GT Series**: Wear resistance between the bush and roller is better than the DT Series.
- **CT Series**: Increased wear resistance between pin and bush. Ideal for conveying cement and other wear inducing materials.
- **AT Series**: Twice the tensile strength of the DT Series, with wear resistance between bush and roller, wear resistant link plates.
- **BT Series**: Increased wear resistance between pin and bush. Ideal for conveying cement and other wear inducing materials.

**Wear Resistant/Heavy Duty Conveyor Chains**

- **MT Series**: Pin and bush are made of 400 Series stainless steel, and the roller of high tensile structural steel. The MT Series has increased wear resistance between bush and roller.
- **CT Series**: Increased wear resistance between pin and bush. Ideal for conveying cement and other wear inducing materials.
- **RT Series**: Pin, bush, and roller are made of 400 Series stainless steel, increasing corrosion resistance. Link plates are made of carburized steel.
- **BT Series**: Increased wear resistance between pin and bush. Ideal for conveying cement and other wear inducing materials.

**Corrosion Resistant Series**

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- **RT Series**: Pin, bush, and roller are made of 400 Series stainless steel, increasing corrosion resistance. Link plates are made of carburized steel.
- **BT Series**: Increased wear resistance between pin and bush. Ideal for conveying cement and other wear inducing materials.

**NEP Series**: Raises the corrosion resistance of general use and wear resistant/heavy duty conveyor chain. (Coated Conveyor Chain)
Attachment Types

Attachments can be placed at any link spacing.

Standard Attachments (A1, A2, K1, K2, GA2, GA4)

Standard attachments are both economical and versatile.

A Attachments

A attachments have a bent link plate on one side. They are referred to as A1, A2, or A3 attachments, depending on the number of bolt holes.

K Attachments

K attachments have a bent link plate on both ends. They are referred to as K1 or K2 attachments, depending on the number of bolt holes.

GA Attachments

GA attachments have holes in the link plate itself. They are referred to as GA2 or GA4 attachments, depending on the number of bolt holes.

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